## I-680/I-880 Cross Connector Conceptual Study Report

## **Design Criteria**

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Ę	Classification	Posted Speed (mph/kmh)	Design Speed (mph/kmh)	Value Crest)	Grade	Grade	l Grade		iction "f"		٩	ch	Width I)	/idth	Lanes	Width	alk ed Dist	nd /u (§	Min. Vertical Clearance (M)	re/ ork (M)	Max. Fill/ Cut Slope
Location	Classif	Posted (mph/k	Design (mph/k	Min K \ (Sag/ C	Min Gr	Мах Gı	Vertical Break	етах	Side Friction Factor "f"	Rmin	Min SS	Approach Taper	Shidr V (Ft/ M)	Lane Width (Ft/ M)	No. of I	Median ' (FT/ M)	Sidewalk Width/ Detached I (Ft/M)	Curb and Gutter (median/ flowline)	Min. Ve Clearaı	Structure/ Falsework Depth (M)	Max. F Slope
Interstate 880	Urban Freeway	65mph/ 110kmh		50/ 102	0.30%	6%		10%	0.09	495 m	255 m										
Interstate 680	Urban Freeway	65mph/ 110kmh		50/ 102	0.30%	6%		10%	0.09	495 m	255 m										
HOV Lanes	City Arterial	45mph/ 70 kmh			0.30%	6%		10%	0.09	495 m	255 m										
Loop Ramps	Urban Freeway	40kmh	35mph/ 60kmh	15/ 14	0.30%	6%		12%	0.15	105 m			4/1.2IS	See Table 504.3		N/A	N/A	N/A			
Single Lane Ramps	Urban Freeway	25mph/ 40kmh			0.30%	6%		12%					8/ 2.4OS, 4/1.2IS	12/3.6	1	N/A	N/A	N/A			
Multilane Ramps	Urban Freeway	25mph/ 40kmh			0.30%	6%		12%					8/ 2.4OS, 4/1.2IS	12/3.6	2	N/A	N/A	N/A			
Auto Mall Parkway	City Arterial	45mph/ 70 kmh																			
Grimmer Blvd	City Arterial	45mph/ 70 kmh																			
Fremont Blvd	City Arterial	45mph/ 70 kmh																			
Mission Blvd	Express- way	45mph/ 70 kmh	kmh	30/ 43	0.30%	5%	0.2%	6%	0.13	335 m	105 m	54:1	5/ 1.5	12ft/ 3.6m	2ED, 1TL	N/A	12/3.6, 0/0				
Mission Tunnel	Express- way	45mph/ 70 kmh	kmh	30/ 43	0.30%	6%	0.2%	6%	0.13	335 m	105 m		8/ 2.4	12ft/ 3.6m	2ED	8/ 2.4	N/A		4.6	1.29/ 1.04	
Scott Creek Road	City Arterial	45mph/ 70 kmh																			
Dixon Landing Road	City Arterial	45mph/ 70 kmh																			
Calaveras Blvd	Express- way Express-	45mph/ 70 kmh 45mph/ 70																			
Montague Expressway	way	kmh																			

ED - Each Direction

TL - Turn Lane

IS - Inside Shoulder

OS - Outside Shoulder

Weaving Length (Ft/ M) Fig 504.7a LOS C/D Bay Tapers, See Table 405.2A

For Deceleration Lane Length, See Table 405.2B

For Superelevation Runoff Lengths and Transitions, See Figure 202.5

The min curve length for central angles less than 10 degrees should be pg 200-21 Highway Design Manual

For central angles less than 30 minutes, no curve is required

pg 200-21 Highway Design Manual

For structure depths, See section 204.6

pg 200-27 Highway Design Manual